

Amendments to the Claims:

1-12. (Cancelled)

13. (Currently Amended) A magnetic resonance compatible stent ~~as set forth in claim 12~~ for use in intravascular therapy, the stent comprising:

5 a plurality of electrically conductive elements arranged in a generally tubular structure, the conductive elements comprising generally diagonally arranged struts with respect to a central axis of the stent, the conductive elements comprising:

a plurality of loops disposed about a central axis of the stent; and

10 a plurality of linking members for joining the loops such that the loops and linking members form a generally tubular structure around the central axis of the stent; and

a plurality of non-conductive connector nodes disposed among the conductive elements for directing a current induced by RF signals in an examination region of a magnetic resonance apparatus to flow in the conductive elements such that adjacent segment currents cancel each other and a net current flowing in the stent is
15 substantially minimized;

wherein the loops and linking members are connected within the insulator nodes ~~whereby currents such that the current~~ flowing through adjacent loops substantially cancel each other.

14-15. (Cancelled)

16. (Currently Amended) A stent comprising:

5 a plurality of electrically conductive struts connected by a plurality of insulating nodes to define a diamond-shaped mesh of the conductive struts, the plurality of conductive struts and insulating nodes being disposed in a cylinder to define a generally tubular diamond-shaped conductive mesh, the mesh being arranged such the conductive struts being electrically connected to define a plurality of loops of struts in a zig-zag pattern extending peripherally around the cylinder, each ring being

electrically connected to each adjacent neighboring ring in such a manner that currents induced in the [[mesh]] zig-zag loops during a magnetic resonance examination flow in opposite peripheral directions and are substantially cancelled by one another.

17-18. (Cancelled)

19. (New) The stent according to claim 16, wherein each zig-zag loop is connected to each neighboring zig-zag loop only once.

20. (New) The stent according to claim 16, wherein each zig-zag loop is connected to its neighboring zig-zag loop alternately at 90° intervals.

21. (New) A stent which inhibits interaction with an MR system, the stent comprising:

two conductive expandable mesh layers with an elastic layer of non-conductive material in between, each mesh layer including a plurality of electrically conductive elements connected to define a conductive pattern along which currents induced by the MR system flow, the conductive patterns of the two conductive mesh layers overlaying each other and being configured such that the current induced in one of the conductive patterns is equal and opposite such that the currents cancel each other.